Introduction to Scenery Disk #9

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Scenery Disk #9 includes the areas covered by the Chicago, St. Louis, and Cincinnati NOAA sectional charts. Each sectional covers an area of more than 100,000 square miles (statute) and is usually named for a prominent city within that area. SD#9 includes more detailed cities and airports than ever before. Many airports now have a Visual Approach Slope Indicator (VASI) landing light system. Improved runways feature threshold markings, fixed distance markers and touchdown zone markers with dimensions and placement to FAA specifications. The city of Chicago now has many more buildings, landmarks and visual cues. St. Louis is also packed with scenery and borders a highly-realistic rendition of the Mississippi River that runs all the way from Wisconsin to Tennessee. The Cincinnati sectional area features a cluster of more than thirty mountains stretching from Tennessee to Pennsylvania. With over 150 detailed airports (many with refueling facilities) and numerous VOR and NDB transmitters, this disk should keep you flying for a long time. The following notes and recommendations will help you to explore these new scenery areas.

Chicago Sectional Area

City of Interest: Chicago, IL	-	17186N	16671E
Sears Tower	-	17197N	16662E
John Hancock Bldg.	-	17205N	16667E
Standard Oil Bldg.	-	17199.5N	16667E
First National Bank	-	17198.5N	16664E
Lake Point Tower	-	17203N	16670E
Harbor Point Tower	-	17199.5N	16669E
McCormick Place	-	17185N	16670E
Adler Planetarium	-	17191.5N	16672E
Chicago River			
Detailed Lake Michigan shoreline			
Other Cities Included:			
Milwaukee, WI	-	17652N	16577E
La Crosse, WI	-	18024N	15531E
Madison, WI	-	17701N	16101E
Quad Cities, IL/IA	-	17028N	15731E
Waterloo, IA	-	17474N	15161E
Grand Rapids, MI	-	17641N	17279E

Detailed Airports:			
O'Hare International	-	17241N	16579E
Meigs Field	-	17186N	16671E
Midway	-	17156N	16630E
Fort Wayne, IN	-	16836N	17464E
Grand Rapids, MI	-	17642N	17319E
Battle Creek/W.K. Kellogg, MI	-	17404N	17418E
Oshkosh, WI	-	18096N	16365E
Peoria, IL	-	16667N	15999E
Moline, IL	-	17009N	15737E

St. Louis Sectional Area

City of Interest: St. Louis, MO	-	15789N	15823E
Gateway Arch	-	15791N	15824E
Busch Memorial Stadium	-	15791N	15821E
Downtown cluster of 'generic' buildings			
Mississippi River			
Westward Expansion Park			
Downtown plaza			
Forest Park			
City of Interest: Champaign-Urbana, IL	-	16433N	16474E
University Inn	-	16431.5N	16476.5E
U. of I. Assembly Hall	-	16426N	16476.5E
U. of I. Armory	-	16429.5N	16477.5E
Huntington Tower	-	16433N	16474.5E
Woodley House (National Hysterical Site)	-	16432N	16471E
City of Interest: Indianapolis, IN	-	16292N	17162E
Indy 500 Speedway			
Other Cities Included:			
Springfield, IL	-	16291N	16009E
Nashville, TN	-	14717N	17040E
Louisville, KY	-	15645N	17328E
Lexington, KY	-	15574N	17752E
Detailed Airports:			
Champaign/Willard, IL	-	16399N	16466E
St. Louis Lambert, MO	-	15842N	15770E
Louisville Standiford, KY	-	15619N	17330E
Lexington Blue Grass, KY	-	15574N	17718E

Nashville Metro, TN	-	14717N	17040E
Indianapolis Intl.	-	16237N	17126E

Cincinnati Sectional Area

City of Interest: Cincinnati, OH	-	16031N	17724E
Riverfront Stadium	-	16031N	17724E
Downtown cluster of 'generic' buildings			
Bluff on west edge of city			
Ohio River			
Other Cities Included:			
Columbus, OH	-	16414N	18175E
Dayton, OH	-	16322N	17824E
Winston-Salem, NC	-	14837N	19243E
Roanoke, VA	-	15351N	19283E
Detailed Airports:			
Greater Cincinnati Intl., OH	-	16003N	17673E
Cincinnati Lunken, OH	-	16036N	17755E

Mountains

There are about thirty mountains and mountain clusters in the Allegheny region from Clinch Mountain, Tennessee up to Shenandoah National Park, Virginia and Laurel Hill, Pennsylvania. Shenandoah is also included on Scenery Disk #7 and Laurel on Scenery Disk #11 to improve continuity when flying from disk to disk.

Rivers and Lakes

Major rivers are represented in great detail by colored surfaces rather than vector lines. The Mississippi may be navigated from north of La Crosse, Wisconsin through the Quad Cities (Illinois/Iowa) and St. Louis, Missouri to south of Dyersburg, Tennessee.

The Ohio River starts at the north edge of the Cincinnati sectional near Wheeling, West Virginia and continues through Cincinnati, Ohio and Louisville, Kentucky to it's confluence with the Mississippi at Cairo, Illinois.

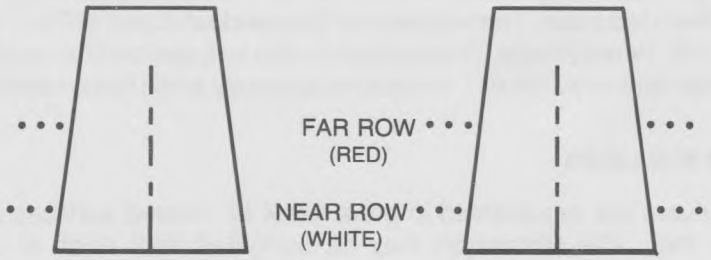
The Illinois River is also very detailed from Chicago to where it meets the Mississippi north of St. Louis.

There are many other lakes on SD#9 besides Lake Michigan. Two of them, man-made Kentucky Lake and Lake Barkley in Kentucky/Tennessee also have dams (15094N, 16490E).

VASI Landing Light System

The VASI (Visual Approach Slope Indicator) light system consists of two rows of lights at the near end of a runway that are used to keep the pilot on the correct glideslope during a landing approach. VASI functions in much the same way as the glideslope portion of an ILS, but it is a visual system rather than a radio signal. All you have to do is watch two rows of lights to make sure that your approach angle is within the prescribed limits. You'll really appreciate this feature if you've ever had trouble landing Flight Simulator due to poor glidepath control.

When coming in for a landing at a runway equipped with VASI, the two rows of VASI lights turn white or red depending on whether your landing approach is too high or too low (see illustration below). To stay on the correct approach angle (3 degrees +/- .25 degrees) just keep the far row(s) of lights red and the near row(s) white. The far row is set to change color at 3.25 degrees and the near row is set to change color at 2.75 degrees. If you are above the angle set for a row of lights, that row will appear white. Below the angle for a given row the lights change to red. You can remember this by the rhyme "Red over white is alright, Red over red you're dead".



Airports that support VASI are listed on the appropriate sectional area chart. VASI lights are only available when using Scenery Disk #9 with the following software/system configurations:

SubLOGIC Flight Simulator II (Amiga and Atari ST)
Microsoft Flight Simulator Version 3.0 (IBM PC)
Microsoft Flight Simulator (Macintosh)

Supported Instrument Approach Procedures

Many airports on SD#9 support instrument approaches of one kind or another. These airports are listed by state below. Instrument Approach Procedures documentation is available from your local Fixed Base Operator (look under Aircraft Rental and Services in the phone book yellow pages). Ordering information may also be obtained by writing to:

U.S. Department of Commerce (NOAA)
Western Publishing
Wood Road
Cambridge, MD 21613

Different volumes illustrate ILS, NDB, and VOR approaches for all airports in a specific state or multi-state area. Here is a list of the appropriate volumes and the states that they cover:

Volume	States Covered
EC-1	MI
EC-2	IN, OH
EC-3	IL, WI
SC-1	AR, LA, OK
SE-1	AL, KY, MS, TN
NC-1	IA, MN, ND, SD
NE-3	DC, DE, MD, NJ, VA, WV

Arkansas

Walnut Ridge (ARG)
VOR DME 22

Illinois

Alton-St. Louis (ALN)
VOR-A

Bloomington-Normal (BMI)
VOR 11
VOR 21/VOR DME 21

Carbondale-Murphysboro (MDH)
VOR-A

Centralia (ENL)
VOR-A

Champaign (CMI)
ILS 32L
VOR 4
VOR DME 22
NDB 32L

Chicago-Du Page (DPA)
VOR 10

Illinois (continued)

Chicago Midway (MDW)
ILS 4R
NDB 4R
NDB 32L

Chicago O'Hare (ORD)
ILS 14R
NDB 9R

Chicago-Wheeling Pal-waukee (PWK)
VOR 16

Danville (DNV)
VOR 21
VOR 3

Decatur (DEC)
VOR 36

Galesburg (GBG)
VOR 2
VOR 20

Jacksonville (IJX)
VOR 13

Lawrenceville (LWV)
VOR 36
VOR 18
VOR 27

Marion (MWA)
VOR 2
VOR 20

Mattoon-Charleston (MTO)
VOR 6
VOR 24

Moline (MLI)
ILS 9

Mt. Vernon (MVN)
VOR 23
VOR 5

Peoria (PIA)
VOR 13
VOR 5

Robinson (RSV)
VOR 27
VOR 17

Rockford (RFD)
VOR 12

Springfield (SPI)
VOR 22

Indiana

Anderson (AID)
VOR-A

Bedford (BFR)
VOR DME 13
VOR DME 31

Bloomington (BMG)
VOR 6
VOR 17
VOR DME 35
VOR 24

Connersville (CEV)
VOR DME-A
NDB 18

Elkhart (CFJ)
VOR 27
VOR DME 35
VOR 9

Evansville (EVV)
VOR 4

Indiana (continued)

Ft. Wayne (FWA)
ILS 32
VOR 5
VOR 14
VOR 23

Indianapolis International (IND)
ILS 4L
VOR 13

Indianapolis Mt. Comfort (MQJ)
VOR 34

Indianapolis Terry (I52)
VOR 36

Kokomo (OKK)
VOR 23
VOR 32

Muncie (MIE)
VOR 32
VOR 14
VOR 20

Richmond (RID)
VOR 6
VOR 24

South Bend (SBN)
VOR 18

Terre Haute (HUF)
VOR DME 5
VOR 23

Iowa

Cedar Rapids (CID)
VOR 27
VOR 9

Dubuque (DBQ)
VOR 31
VOR 13
VOR 36

Waterloo (ALO)
VOR 12
VOR DME 30
VOR 6
VOR 18
VOR 24
VOR 36

Kentucky

Ashland (IZB)
VOR 10

Bardstown (BRY)
VOR DME 2

Bowling Green (BWG)
VOR 3
VOR DME 21

Elizabethtown (EKX)
VOR-A

Frankfort (FFT)
VOR 6
VOR 24

Ft. Knox Godman
VOR 18
VOR 36

Kentucky Continued)

Glasgow (GLW)
VOR DME 7

Lexington (LEX)
ILS 4
VOR-A

London (LOZ)
VOR 5
VOR DME 23

Louisville Bowman (LOU)
VOR 32
VOR 14
VOR 1
VOR 19
VOR 24

Louisville Standiford (SDF)
ILS 1
VOR 29

Madisonville (2IO)
VOR 23

Mayfield (M25)
VOR DME-A

Owensboro (OWB)
VOR 35
VOR 17

Paducah (PAH)
VOR 4
VOR DME 22

Maryland

Cumberland (CBE)
NDB-A

Michigan

Battle Creek (BTL)
ILS 23
VOR 23
VOR 5

Benton Harbor (BEH)
VOR 9
VOR 27

Grand Rapids (GRR)
ILS 8R

Kalamazoo (AZO)
VOR 35
VOR 17
VOR 23

Muskegon (MKG)
VOR DME 6
VOR-A

Missouri

Cape Girardeau (CGI)
VOR 10
VOR 2
VOR 20

Perryville (KO2)
VOR DME-A

Missouri (continued)

Sikeston (SIK)
VOR 20

St. Louis Lambert (STL)
ILS 30R

St. Louis Spirit of St. Louis (SUS)
VOR 8R
VOR 26L

North Carolina

Greensboro (GSO)
VOR DME 23
VOR 5
VOR DME 32

Winston-Salem (INT)
VOR DME-A

Ohio

Cincinnati Lunken (LUK)
ILS 20L
NDB 24

Cincinnati (Greater Cincinnati) (CVG)
ILS 9R

Circleville (CYO)
VOR 19
NDB 19

Columbus Port Columbus (CMH)
NDB 28L

Dayton Cox (DAY)
NDB 6L
NDB 6R

Dayton Dayton General South (MGY)
VOR 20
VOR-A
NDB 9

Lebanon (I68)
NDB-A
Middletown (MWO)
NDB 23

Springfield (SGH)
VOR 6
VOR 24

Wilmington (ILN)
VOR 22/VOR DME 22
VOR 4

Wright-Patterson AFB (FFO)
VOR DME 5L
VOR 23R/VOR DME 23R

Tennessee

Bristol/Johnson City/Kingsport (TRI)
NDB 23

Clarksville (CKV)
VOR 35

Dyersburg (DYR)
VOR DME 4
VOR-A

Greeneville (GCY)
NDB 5

Livingston (LVT)
VOR DME 21

Nashville (BNA)
ILS 2L
VOR 31
VOR DME 20L
VOR DME 20R
VOR DME 13

Smyrna (MQY)
VOR DME 32
VOR DME 14

Union City (UCY)
VOR DME-A

Waverly (OM5)
VOR DME-A

Virginia

Charlottesville (CHO)
NDB 3

Danville (DAN)
VOR 2
VOR 24

Dublin (PSK)
VOR DME 6
VOR-A

Galax-Hillsville (HLX)
VOR DME 18

Lynchburg (LYH)
VOR 3
VOR DME 21

Roanoke (ROA)
VOR 33
VOR DME-A

West Virginia

Beckley (BKW)
VOR 19
VOR 10
VOR DME 1

Charleston (CRW)
VOR-A

Clarksburg (CKB)
VOR 3

Elkins (EKN)
VOR DME-B

Huntington (HTS)
NDB 12

Lewisburg (LWB)
VOR-A

Morgantown (MGW)
VOR DME 18
VOR-A

West Virginia (continued)

Parkersburg (PKB)
VOR 21

Wheeling (HLG)
VOR 21

Wisconsin

Fond du Lac (FLD)
VOR DME 18
VOR DME 36

Janesville (JVL)
VOR 4

La Crosse (LSE)
VOR 13
VOR 36

Madison (MSN)
VOR 18
VOR 13
VOR 31

Milwaukee Mitchell (MKE)
NDB 1L/R

Milwaukee Timmerman (MWC)
VOR 15L
VOR 4L

Oshkosh (OSH)
ILS 36
VOR 36
VOR 9
VOR 18
VOR 27

Racine (HRK)
VOR 22
VOR 4

Sheboygan (SBM)
NDB 21